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0403

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/043,436

DATE: 06/06/2002

TIME: 11:23:58

Input Set : N:\Crf3\RULE60\10043436.raw

Output Set: N:\CRF3\06062002\J043436.raw

1 <110> APPLICANT: Le, Junming  
2 Vilcek, Jan  
3 Daddona, Peter  
4 Ghrayeb, John  
5 Knight, David M.  
6 Siegel, Scott  
7 <120> TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of  
8 Human Tumor Necrosis Factor  
9 <130> FILE REFERENCE: 0975.1005-013  
10 <140> CURRENT APPLICATION NUMBER: 10/043,436  
11 <141> CURRENT FILING DATE: 2002-01-10  
12 <150> PRIOR APPLICATION NUMBER: US/09/927,703  
13 <151> PRIOR FILING DATE: 2001-08-10  
14 <150> PRIOR APPLICATION NUMBER: U.S. 09/756,398  
15 <151> PRIOR FILING DATE: 2001-01-08  
16 <150> PRIOR APPLICATION NUMBER: U.S. 09/133,119  
17 <151> PRIOR FILING DATE: 1998-08-12  
18 <150> PRIOR APPLICATION NUMBER: U.S. 08/570,674  
19 <151> PRIOR FILING DATE: 1995-12-11  
20 <150> PRIOR APPLICATION NUMBER: U.S. 08/324,799  
21 <151> PRIOR FILING DATE: 1994-10-18  
22 <150> PRIOR APPLICATION NUMBER: U.S. 08/192,102  
23 <151> PRIOR FILING DATE: 1994-02-04  
24 <150> PRIOR APPLICATION NUMBER: U.S. 08/192,861  
25 <151> PRIOR FILING DATE: 1994-02-04  
26 <150> PRIOR APPLICATION NUMBER: U.S. 08/192,093  
27 <151> PRIOR FILING DATE: 1994-02-04  
28 <150> PRIOR APPLICATION NUMBER: U.S. 08/010,406  
29 <151> PRIOR FILING DATE: 1993-01-29  
30 <150> PRIOR APPLICATION NUMBER: U.S. 08/013,413  
31 <151> PRIOR FILING DATE: 1993-02-02  
32 <150> PRIOR APPLICATION NUMBER: U.S. 07/943,852  
33 <151> PRIOR FILING DATE: 1992-09-11  
34 <150> PRIOR APPLICATION NUMBER: U.S. 07/853,606  
35 <151> PRIOR FILING DATE: 1992-03-18  
36 <150> PRIOR APPLICATION NUMBER: U.S. 07/670,827  
37 <151> PRIOR FILING DATE: 1991-03-18  
38 <160> NUMBER OF SEQ ID NOS: 19  
39 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
41 <210> SEQ ID NO: 1  
42 <211> LENGTH: 157  
43 <212> TYPE: PRT  
44 <213> ORGANISM: Homo sapiens

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45 <400> SEQUENCE: 1
46   Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val
47   1          5          10          15
48   Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg
49   20          25          30
50   Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu
51   35          40          45
52   Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe
53   50          55          60
54   Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile
55   65          70          75          80
56   Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala
57   85          90          95
58   Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys
59   100         105         110
60   Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys
61   115         120         125
62   Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe
63   130         135         140
64   Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu
65   145         150         155
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68 <211> LENGTH: 321
69 <212> TYPE: DNA
70 <213> ORGANISM: Mus Balb/c
71 <220> FEATURE:
72 <221> NAME/KEY: CDS
73 <222> LOCATION: (1)...(321)
74 <400> SEQUENCE: 2
75   gac atc ttg ctg act cag tct cca gcc atc ctg tct gtg agt cca gga      48
76   Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly
77   1          5          10          15
78   gaa aga gtc agt ttc tcc tgc agg gcc agt cag ttc gtt ggc tca agc      96
79   Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
80   20          25          30
81   atc cac tgg tat cag caa aga aca aat ggt tct cca agg ctt ctc ata     144
82   Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
83   35          40          45
84   aag tat gct tct gag tct atg tct ggg atc cct tcc agg ttt agt ggc     192
85   Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly
86   50          55          60
87   agt gga tca ggg aca gat ttt act ctt agc atc aac act gtg gag tct     240
88   Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Thr Val Glu Ser
89   65          70          75          80
90   gaa gat att gca gat tat tac tgt caa caa agt cat agc tgg cca ttc     288
91   Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro Phe
92   85          90          95
93   acg ttc ggc tcg ggg aca aat ttg gaa gta aaa                        321
94   Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys

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95                               100                               105
97 <210> SEQ ID NO: 3
98 <211> LENGTH: 107
99 <212> TYPE: PRT
100 <213> ORGANISM: Mus Balb/c
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103       1                               5                               10                               15
104   Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
105       20                               25                               30
106   Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
107       35                               40                               45
108   Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly
109       50                               55                               60
110   Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Thr Val Glu Ser
111       65                               70                               75                               80
112   Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro Phe
113       85                               90                               95
114   Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys
115       100                               105
117 <210> SEQ ID NO: 4
118 <211> LENGTH: 357
119 <212> TYPE: DNA
120 <213> ORGANISM: Mus Balb/c
121 <220> FEATURE:
122 <221> NAME/KEY: CDS
123 <222> LOCATION: (1)...(357)
124 <400> SEQUENCE: 4
125   gaa gtg aag ctt gag gag tct gga gga ggc ttg gtg caa cct gga gga      48
126   Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
127       1                               5                               10                               15
128   tcc atg aaa ctc tcc tgt gtt gcc tct gga ttc att ttc agt aac cac      96
129   Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Ile Phe Ser Asn His
130       20                               25                               30
131   tgg atg aac tgg gtc cgc cag tct cca gag aag ggg ctt gag tgg gtt      144
132   Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
133       35                               40                               45
134   gct gaa att aga tca aaa tct att aat tct gca aca cat tat gcg gag      192
135   Ala Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu
136       50                               55                               60
137   tct gtg aaa ggg agg ttc acc atc tca aga gat gat tcc aaa agt gct      240
138   Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ala
139       65                               70                               75                               80
140   gtc tac ctg caa atg acc gac tta aga act gaa gac act ggc gtt tat      288
141   Val Tyr Leu Gln Met Thr Asp Leu Arg Thr Glu Asp Thr Gly Val Tyr
142       85                               90                               95
143   tac tgt tcc agg aat tac tac ggt agt acc tac gac tac tgg ggc caa      336
144   Tyr Cys Ser Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp Tyr Trp Gly Gln
145       100                               105                               110

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146 ggc acc act ctc aca gtc tcc 357  
 147 Gly Thr Thr Leu Thr Val Ser  
 148 115  
 150 <210> SEQ ID NO: 5  
 151 <211> LENGTH: 119  
 152 <212> TYPE: PRT  
 153 <213> ORGANISM: Mus Balb/c  
 154 <400> SEQUENCE: 5  
 155 Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 156 1 5 10 15  
 157 Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Ile Phe Ser Asn His  
 158 20 25 30  
 159 Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val  
 160 35 40 45  
 161 Ala Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu  
 162 50 55 60  
 163 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ala  
 164 65 70 75 80  
 165 Val Tyr Leu Gln Met Thr Asp Leu Arg Thr Glu Asp Thr Gly Val Tyr  
 166 85 90 95  
 167 Tyr Cys Ser Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp Tyr Trp Gly Gln  
 168 100 105 110  
 169 Gly Thr Thr Leu Thr Val Ser  
 170 115  
 172 <210> SEQ ID NO: 6  
 173 <211> LENGTH: 8  
 174 <212> TYPE: PRT  
 175 <213> ORGANISM: Homo sapiens  
 176 <400> SEQUENCE: 6  
 177 Gly Thr Leu Val Thr Val Ser Ser  
 178 1 5  
 180 <210> SEQ ID NO: 7  
 181 <211> LENGTH: 7  
 182 <212> TYPE: PRT  
 183 <213> ORGANISM: Homo sapiens  
 184 <400> SEQUENCE: 7  
 185 Gly Thr Lys Leu Glu Ile Lys  
 186 1 5  
 188 <210> SEQ ID NO: 8  
 189 <211> LENGTH: 20  
 190 <212> TYPE: DNA  
 191 <213> ORGANISM: Artificial Sequence  
 192 <220> FEATURE:  
 193 <223> OTHER INFORMATION: PCR oligonucleotides  
 194 <400> SEQUENCE: 8  
 195 cctggatacc tgtgaaaaga 20  
 197 <210> SEQ ID NO: 9  
 198 <211> LENGTH: 27  
 199 <212> TYPE: DNA

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200 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: PCR oligonucleotides
203 <400> SEQUENCE: 9
204      cctggtacct tagtcaccgt ctcctca                27
206 <210> SEQ ID NO: 10
207 <211> LENGTH: 27
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: PCR oligonucleotides
212 <400> SEQUENCE: 10
213      aatagatatc tccttcaaca cctgcaa                27
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216 <211> LENGTH: 21
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: PCR oligonucleotides
221 <400> SEQUENCE: 11
222      atcgggacaa agttggaaat a                    21
224 <210> SEQ ID NO: 12
225 <211> LENGTH: 16
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227 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: PCR oligonucleotides
230 <400> SEQUENCE: 12
231      ggcggtcttg taccgg                            16
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234 <211> LENGTH: 19
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: PCR oligonucleotides
239 <400> SEQUENCE: 13
240      gtcaacaaca tagtcatca                        19
242 <210> SEQ ID NO: 14
243 <211> LENGTH: 23
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: PCR oligonucleotides
248 <400> SEQUENCE: 14
249      cacaggtgtg tccccaagga aaa                    23
251 <210> SEQ ID NO: 15
252 <211> LENGTH: 18
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/043,436

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Input Set : N:\Crf3\RULE60\10043436.raw

Output Set: N:\CRF3\06062002\J043436.raw